# **DRIVER/OPERATOR-PUMPER**



# PRACTICAL SKILL SHEETS

# INDIANA HOMELAND SECURITY TRAINING INSTITUTE

Page 1

Correlation Sheets for NFPA 1002, 2003 Edition

NFPA OBJECTIVE	TEST QUESTION #	SKILL SHEET #
3.3 General Definitions.		
3.3.1 Aerial Apparatus. A piece of fire apparatus with a permanently mounted, power-operated elevating device, including aerial ladders, aerial ladder platforms, telescoping aerial platforms, articulating aerial platforms, and elevating water delivery systems.	1, 2, 3	
3.3.2 Aerial Device. An aerial ladder, elevating platform, aerial ladder platform, or water tower that is designed to position personnel, handle materials, provide egress, and discharge water.		
<b>3.3.3 Aerial Operator.</b> The fire apparatus driver who has met the requirements of Chapter <u>6</u> for the operation of apparatus equipped with aerial devices.		
3.3.4 Aircraft Rescue and Fire-Fighting (ARFF) Vehicle. A vehicle intended to carry rescue and fire-fighting equipment for rescuing occupants and combating fires in aircraft at, or in the vicinity of, an airport.		
3.3.5 Angle of Approach. The smallest angle made between the road surface and a line drawn from the front point of ground contact of the front tire to any projection of the apparatus in front of the front axle.	4	

Page 2

Correlation Sheets for NFPA 1002, 2003 Edition

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3.3.6 Angle of Departure. The		
smallest angle made between the road surface and the line drawn		
from the rear point of ground		
contact of the rear tire to any		
projection of the apparatus		
behind the rear axle.		
2.2.7 Fine Announting A fine		
<b>3.3.7 Fire Apparatus.</b> A fire department emergency vehicle		
used for rescue, fire suppression,		
or other specialized functions.		
[ <b>1710:</b> 3.3]		
3.3.8 Fire Apparatus Driver.		
The fire fighter who has met the requirements defined in Chapter		
4.		
3.3.9 Fire Department. An		
organization providing rescue,		
fire suppression, and related		
activities, including any public,		
governmental, private, industrial, or military organization engaging		
in this type of activity.		
3,1		
3.3.10 Fire Department	1,2,3	
<b>Pumper.</b> A piece of fire		
apparatus with a permanently		
mounted fire pump that has a rated discharge capacity of 750		
gpm (2850 L/min) or greater as		
defined in NFPA 1901.		
3.3.11 Fire Department		
<b>Vehicle.</b> Any vehicle, including		
fire apparatus, operated by a fire		
department.  3.3.12 Fire Pump. A water		
pump with a rated capacity of		
1000 L/min (250 gpm) or greater		
at 1000 kPa (150 psi) net pump		

Page 3

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pressure that is mounted on a fire apparatus and used for fire fighting. [1901:3.3]		
3.3.13 Foam System. A system provided on fire apparatus for the delivery of a proportioned foam and water mixture for use in fire extinguishment. The system includes a concentrate tank, a method for removing the concentrate from the tank, a foam-liquid proportioning system, and a method (e.g., hand lines or fixed turret nozzles) of delivering the proportioned foam to the fire.		
3.3.14 Job Performance Requirement. A statement that describes a specific job task, lists the items necessary to complete the task, and defines measurable or observable outcomes and evaluation areas for the specific task. [1000:3.3]		
3.3.15 Liquid Surge. The force imposed upon a fire apparatus by the contents of a partially filled water or foam concentrate tank when the vehicle is accelerated, decelerated, or turned.		
3.3.16 Mobile Water Supply Apparatus ( <i>Tanker</i> , <i>Tender</i> ). A vehicle designed primarily for transporting (pickup, transporting, and delivering) water to fire emergency scenes to	1,2,3,5	

Page 4

Correlation Sheets for NFPA 1002, 2003 Edition

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be applied by other vehicles or		
pumping equipment. [1901:3.3]		
4.1 General.		
Prior to operating fire department		
vehicles, the fire apparatus		
driver/operator shall meet the job		
performance requirements defined		
in Sections 4.2 and 4.3.		
4.2 Preventive Maintenance.		
<b>4.2.1*</b> Perform routine tests,	6,7,8,910,11,12,13,14,15,	JPR DO 1
inspections, and servicing	16,17,18,19,20,21,22,23,24	JPR DO 3
functions on the systems and	25,26,27,90,91,93,94,178,	JPR DOP 1
components specified in the	179,184	JEK DOF 1
following list, given a fire	179,104	
department vehicle and its		
manufacturer's specifications, so		
that the operational status of the		
vehicle is verified:		
(1) Battery(ies)		
(2) Braking system		
(3) Coolant system		
(4) Electrical system		
(5) Fuel		
(6) Hydraulic fluids		
(7) Oil		
(8) Tires		
(9) Steering system		
(10) Belts		
(11) Tools, appliances, and		
equipment		
(A) Requisite Knowledge.	6,7,8,910,11,12,13,14,15,	JPR DO1
Manufacturer specifications and	16,17,18,19,20,21,22,23,24	JPR DOP1
requirements, policies, and	25,26,27,90,91,93,94,178,	
procedures of the jurisdiction.	179,184	
(B) Requisite Skills. The ability to		JPR DO1
use hand tools, recognize system	6,7,8,9,10,11,12,13,14,15,1	JPR DOP1
problems, and correct any	6,17,18,19,22,23,24,25,26,	JPR DO3
deficiency noted according to	27,90,91,93,94,178,179,	
policies and procedures.	184	

**DRIVER OPERATOR ENGINE** Page 5 Correlation Sheets for NFPA 1002, 2003 Edition

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<b>4.2.2</b> Document the routine tests,	7,11,12,13,24,25,26,27,28,	JPR DO3
inspections, and servicing	29,30,90,91,178,179	JPR DO2
functions, given maintenance and		
inspection forms, so that all items		
are checked for operation and		
deficiencies are reported.		
(A) Requisite Knowledge.	2,27,28,29,30,90,91,178,	
Departmental requirements for	179	
documenting maintenance		
performed and the importance of		
keeping accurate records		
( <i>B</i> ) Requisite Skills. The ability to	11,12,13,24,25,26,27,28,29	JPR DO3
use tools and equipment and	30,90,91	JPR DO2
complete all related departmental		
forms.		
4.3 Driving/Operating.		
4.3.1* Operate a fire department	2,23,31,32,33,34,35,36,37,	JPR DO4
vehicle, given a vehicle and a	38,39,40,41,42,43,44,45,46	
predetermined route on a public	,47,48,49,50,51,52,53,54,	
way that incorporates the	55,56,57,58,59,60,61,74,77	
maneuvers and features, specified	,79,80,81,82,83,84,85,199	
in the following list, that the	200,207,227	
driver/operator is expected to		
encounter during normal		
operations, so that the vehicle is		
operated in compliance with all		
applicable state and local laws,		
departmental rules and regulations,		
and the requirements of NFPA		
1500, Section 4.2:		
(1) Four left turns and four right		
turns		
(2) A straight section of urban		
business street or a two-lane rural		
road at least 1.6 km (1 mile) in		
length		
(3) One through-intersection and		
two intersections where a stop has		
to be made		
(4) One railroad crossing		
(5) One curve, either left or right		
(6) A section of limited-access		

Page 6

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highway that includes a		
conventional ramp entrance and		
exit and a section of road long		
enough to allow two lane changes		
(7) A downgrade steep enough and		
long enough to require down-		
shifting and braking		
(8) An upgrade steep enough and		
long enough to require gear		
changing to maintain speed		
(9) One underpass or a low		
clearance or bridge		
(A) Requisite Knowledge. The	22,23,31,32,33,34,35,36,37	
effects on vehicle control of liquid	,38,39,40,41,42,43,44,45,	
surge, braking reaction time, and	46,47,48,49,50,51,52,53,54	
load factors; effects of high center	55,56,57,58,59,60,61,74,77	
of gravity on roll-over potential,	,79,80,81,82,83,84,85,199,	
general steering reactions, speed,	200,207,227	
and centrifugal force; applicable		
laws and regulations; principles of		
skid avoidance, night driving,		
shifting, and gear patterns;		
negotiating intersections, railroad		
crossings, and bridges; weight and		
height limitations for both roads		
and bridges; identification and		
operation of automotive gauges;		
and operational limits.		
( <i>B</i> ) Requisite Skills. The ability to	22,23,31,32,33,34,35,36,37	JPR DO4
operate passenger restraint	,38,39,40,41,42,43,44,46,	
devices; maintain safe following	47,48,49,50,51,52,53,54,55	
distances; maintain control of the	,56,57,58,59,60,74,77,79,	
vehicle while accelerating,	80,81,82,83,84,85,199,200,	
decelerating, and turning, given	207,227	
road, weather, and traffic		
conditions; operate under adverse		
environmental or driving surface		
conditions; and use automotive		
gauges and controls		
<b>4.3.2</b> Back a vehicle from a	56,62,63,64,65,66,67,68,77	JPR DO5
roadway into restricted spaces on		
both the right and left sides of the		

Correlation Sheets for NFPA 1002, 2003 Edition

Page 7

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vehicle, given a fire department		
vehicle, a spotter, and restricted		
spaces $3.7 \text{ m} (12 \text{ ft}) \text{ in width,}$		
requiring 90-degree right-hand and		
left-hand turns from the roadway,		
so that the vehicle is parked within		
the restricted areas without having		
to stop and pull forward and		
without striking obstructions		
(A) Requisite Knowledge.	37,56,62,63,64,65,66,67,68	JPR DO5
Vehicle dimensions, turning	,77	
characteristics, spotter signaling,		
and principles of safe vehicle		
operation.		
(B) Requisite Skills. The ability to	37,56,62,63,64,65,66,67,68	
use mirrors and judge vehicle	,77	
clearance		
<b>4.3.3</b> Maneuver a vehicle around	37,43,44,47,56,57,62,63,64	JPR DO6
obstructions on a roadway while	,65,69,70,71	
moving forward and in reverse,		
given a fire department vehicle, a		
spotter for backing, and a roadway		
with obstructions, so that the		
vehicle is maneuvered through the		
obstructions without stopping to		
change the direction of travel and		
without striking the obstructions.		
(A) Requisite Knowledge.	37,43,44,47,56,57,62,63,64	
Vehicle dimensions, turning	,65,69,70,71	
characteristics, the effects of liquid		
surge, spotter signaling, and		
principles of safe vehicle		
operation.		
(B) Requisite Skills. The ability to	37,43,44,47,56,57,62,63,64	JPR DO6
use mirrors and judge vehicle	,65,69,70,71	
clearance.		
<b>4.3.4</b> Turn a fire department	37,56,62,63,64,65,68,72,73	JPR DO7
vehicle 180 degrees within a	,74	
confined space, given a fire		
department vehicle, a spotter for		
backing up, and an area in which		
the vehicle cannot perform a U-		

Page 8

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turn without stopping and backing		
up, so that the vehicle is turned		
180 degrees without striking		
obstructions within the given		
space.		
(A) Requisite Knowledge.	37,56,62,63,64,65,68,72,73	
Vehicle dimensions, turning	,74	
characteristics, the effects of liquid		
surge, spotter signaling, and		
principles of safe vehicle		
operation.		
(B) Requisite Skills. The ability to	37,56,62,63,64,65,68,72,73	JPR DO7
use mirrors and judge vehicle	,74	
clearance		
<b>4.3.5</b> Maneuver a fire department	37,47,56,57,62,63,64,68,75	JPR DO8
vehicle in areas with restricted	,76,77	
horizontal and vertical clearances,		
given a fire department vehicle		
and a course that requires the		
operator to move through areas of		
restricted horizontal and vertical		
clearances, so that the operator		
accurately judges the ability of the		
vehicle to pass through the		
openings and so that no		
obstructions are struck.		
(A) Requisite Knowledge.	37,47,56,57,62,63,64,68,75	
Vehicle dimensions, turning	,76,77	
characteristics, the effects of liquid		
surge, spotter signaling, and		
principles of safe vehicle		
operation.		
( <i>B</i> ) Requisite Skills. The ability to	37,47,56,57,62,63,64,68,75	JPR DO8
use mirrors and judge vehicle	,76,77	
clearance.		
<b>4.3.6</b> Operate a vehicle using	34,35,36,37,42,43,46,47,48	JPR DO1
defensive driving techniques under	,49,50,51,52,53,54,55,56	
emergency conditions, given a fire	,60,61,63,66,67,68,69,70,	
department vehicle and emergency	74,77,78,79,80,81,82,83,84	
conditions, so that control of the	,234,235	
vehicle is maintained.		
(A) Requisite Knowledge. The	34,35,36,37,42,43,46,47,48	

Page 9

Correlation Sheets for NFPA 1002, 2003 Edition

1 1	r IFSAC accreditation review	UNLI
effects on vehicle control of liquid	,49,50,51,52,53,54,55,56,	
surge, braking reaction time, and	60,61,63,66,67,68,69,70,74	
load factors; the effects of high	,77,78,79,80,81,82,83,84,	
center of gravity on roll-over	234,235	
potential, general steering		
reactions, speed, and centrifugal		
force; applicable laws and		
regulations; principles of skid		
avoidance, night driving, shifting,		
and gear patterns; negotiation of		
intersections, railroad crossings,		
and bridges; weight and height		
limitations for both roads and		
bridges; identification and		
operation of automotive gauges;		
and operational limits.		
(B) Requisite Skills. The ability to	34,35,36,37,42,43,46,47,48	JPR DO1
operate passenger restraint	,49,50,51,52,53,54,55,56,	
devices; maintain safe following	60,61,63,66,67,68,69,70,74	
distances; maintain control of the	,77,78,79,80,81,82,83,84,	
vehicle while accelerating,	234,235	
decelerating, and turning, given		
road, weather, and traffic		
conditions; operate under adverse		
environmental or driving surface		
conditions; and use automotive		
gauges and controls.		
<b>4.3.7</b> Operate all fixed systems and	42,44,86,87	JPR DO 1
equipment on the vehicle not		
specifically addressed elsewhere in		
this standard, given systems and		
equipment, manufacturer's		
specifications and instructions, and		
departmental policies and		
procedures for the systems and		
equipment, so that each system or		
piece of equipment is operated in		
accordance with the applicable		
instructions and policies.		
(A) Requisite Knowledge.	42,44,86,87	
Manufacturer's specifications and		
operating procedures, and policies		

Page 10

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and procedures of the jurisdiction		
( <i>B</i> ) Requisite Skills. The ability to deploy, energize, and monitor the system or equipment and to recognize and correct system problems.	42,44,86,87	JPR DO1
5.1 General.  The requirements of Fire Fighter I as specified in NFPA 1001, and the job performance requirements defined in Sections 5.1 and 5.2 shall be met prior to certification as a fire department driver/operator — pumper.		
<b>5.1.1</b> Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those in 4.2.1, given a fire department pumper and its manufacturer's specifications, so that the operational status of the pumper is verified:	112,12,13,14,17,18,28,88, 89,90,91,92,93,94,95,96,97,98,99,100,101,102,103, 105,106,107,108,109,110, 111,112,113,114,115,178, 191,195,213,214,215,216, 217,227,236	JPR DOP1
(1) Water tank and other extinguishing agent levels ( <i>if applicable</i> )		
(2) Pumping systems		
(3) Foam systems		
(A) Requisite Knowledge.  Manufacturer's specifications and requirements, and policies and procedures of the jurisdiction.	11,12,13,14,17,18,28,88,89 ,90,91,92,93,94,95,96,97, 98,99,100,101,102,103,105 ,106,107,108,109,110,111, 112,113,114,115,178,191, 195,213,214,215,216,217, 227,236	
(B) Requisite Skills. The ability to use hand tools, recognize system problems, and correct any	11,12,13,14,17,18,28,88,89 ,90,91,92,96,97,99,101,102 ,103,104,105,106,107,108,	JPR DOP1

Page 11

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deficiency noted according to	109,110,111,112,113,114,	
policies and procedures.	115,178,191,195,213,214,	
	215,216,227,236	
5.2 Operations		
	66,67,79,88,89,92,97,98,99	JPR DOP 11
<b>5.2.1</b> Produce effective hand or	,100,101,102,103,104,105,	
master streams, given the sources	106,107,108,109,110,111,	
specified in the following list, so	112,116,117,118,119,120,	
that the pump is engaged, all	121,122,123,124,125,126,	
pressure control and vehicle	127,128,129,130,1631,132,	
safety devices are set, the rated	133,134,135,136,137,138,	
flow of the nozzle is achieved	139,140,141,142,143,144,	
and maintained, and the	145,146,147,148,149,150,	
apparatus is continuously	151,152,153,154,155,156,	
monitored for potential problems	157,158,159,160,161,162,	
	163,164,465,166,167,168,	
	169,170,171,72,173,174,	
	175,176,177,178,179,180,	
	181,182,183,184,185,186,	
	187,188,189,190,191,192,	
	193,194,195,196,197,198,	
	199,200,201,202,203,204,	
	205,206,207,208,209,210,	
	211,212,213,214,215,216,	
	217,218,219,220,221,222,	
	223,224,225,226,227,228,	
	229,230,231,232,233,234,	
	235,236,237,238,239,240,	
	241,242,243,244,245,246,	
	247,248,249,250,251,252,	
	253,254,255,256,257,258,	
	259,260,261,262,263,264,	
	265,266,267,268,269,270,	
	271,272,273,274,275,276,	
	277,278,280,281,282,283,	
	284,285,286,287,288,289	
(1) Internal tank		JPR DOP 10
(1) Iliterilai talik		JPR DOP 12
(2) Pressurized source		
(3) Static source		JPR DOP 14

Page 12

Correlation Sheets for NFPA 1002, 2003 Edition

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(4) Transfer from internal tank to		JPR DOP 11
external source		
external source	66 67 99 99 93 97 99 99	
(A) Requisite Knowledge.	66,67,88,89,92,97,98,99,	
Hydraulic calculations for	100,101,102,103,104,105,	
friction loss and flow using both	106,107,108,109,110,111,	
written formulas and estimation	112,116,117,118,119,120,	
methods, safe operation of the	121,122,123,124,125,126,	
pump, problems related to small-	127,128,129,130,131,132,	
diameter or dead-end mains, low-	133,134,135,136,137,138,	
*	139,140,141,142,143,144,	
pressure and private water supply	145,146,147,148,149,150,	
systems, hydrant coding systems,	151,152,153,154,155,156,	
and reliability of static sources	157,158,159,160,161,162,	
	163,164,165,166,167,168,	
	169,170,171,172,173,174,	
	175,176,177,178,179,180,	
	181,182,183,184,185,186,	
	187,188,189,190,191,192,	
	193,194,195,196,197,198,	
	199,200,201,202,203,204,	
	205,206,207,208,209,210,	
	211,212,213,214,215,216,	
	217,218,219,220,221,222,	
	223,224,225,226,227,228	
	,229,230,231,232,233,234,	
	235,236,237,238,239,240,	
	241,242,243,244,245,246,	
	247,248,249,250,251,252,	
	253,254,255,256,257,258,	
	259,260,261,262,263,264,	
	265,266,267,268,269,270,	
	271,272,273,274,275,276,	
	277,278,280,281,282,283,	
	284,285,286,287,288,289	
	66,67,79,88,89,92,97,98,99	JPR DOP 10
( <i>B</i> ) <b>Requisite Skills</b> . The ability	,10,101,102,103,104,105,	JPR DOP 11
to position a fire department	106,107,108,109,110,111,	JPR DOP 12
pumper to operate at a fire	112,116,117,118,119,120,	JPR DOP 14
hydrant and at a static water	121,122,123,124,125,126,	-
source, power transfer from	127,128,129,130,131,132,	
vehicle engine to pump, draft,	133,134,135,136,137,138,	
operate pumper pressure control	, , , , , , , , , , , , , , , , , , , ,	

Page 13

Correlation Sheets for NFPA 1002, 2003 Edition

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systems, operate the	139,140,141,142,143,144,	
volume/pressure transfer valve	145,146,148,149,151,153,	
(multistage pumps only), operate	154,156,157,158,159,161,	
auxiliary cooling systems, make	162,165,166,167,168,169,	
the transition between internal	170,171,172,173,174,175,	
and external water sources, and	176,177,178,179,180,181,	
assemble hose lines, nozzles,	182,183,184,185,186,187,	
valves, and appliances	188,189,190,191,192,193,	
	194,195,196,197,198,199,	
	200,201,202,203,204,205,	
	206,207,208,209,210,211,	
	212,213,214,215,216,217,	
	218,219,220,221,222,223,	
	224,225,226,227,228,229,	
	230,231,232,233,234,235,	
	236,237,,239,240,241,242,	
	243,244,245,246,247,248,	
	249,250,251,252,253,254,	
	255,256,257,258,259,260,	
	261,262,263,264,265,266,	
	267,268,269,270,271,272,	
	273,274,275,276,277,278,	
	280,281,282,283,284,285,	
	286,287,288,289	
	66,67,79,88,89,92,96,97,99	JPR DOP 14A
<b>5.2.2</b> Pump a supply line of 65	,100,101,102,103,104,105,	JPR DOP 14B
mm (2½ in.) or larger, given a	106,107,108,109,110,111,	
relay pumping evolution the	112,116,117,118,119,120,	
length and size of the line and the	124,122,123,124,125,126,	
desired flow and intake pressure,	127,128,129,130,131,132,	
so that the correct pressure and	133,134,135,136,137,138,	
flow are provided to the next	139,141,142,167,168,169,	
pumper in the relay	170,171,172,173,174,175,	
	176,177,180,181,182,183,	
	184,185,186,187,188,189,	
	190,191,192,193,194,195,	
	196,197,198,199,200,201,	
	202,203,204,205,206,207,	
	208,209,210,211,212,213,	
	214,215,216,217,218,219,	
	220,221,222,223,224,225,	
	226,227,229,230,231,232,	

Page 14

Correlation Sheets for NFPA 1002, 2003 Edition

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	241,242,243,244,245,246,	
	247,248,249,250,251,252,	
	253,254,255,256,257,258,	
	259,260,261,262,263,264,	
	265,266,267,268,269,270,	
	271,272,273,274,275,276,	
	277,278,280,281,282,283,	
	284,285,286,287,288,289	
	66,67,88,89,92,93,97,99,	
(A) Requisite Knowledge.	100,101,102,103,104,105,	
Hydraulic calculations for	106,107,108,109,110,111,	
friction loss and flow using both	112,116,117,118,119,120,	
written formulas and estimation	121,122,123,124,125,126,	
methods, safe operation of the	127,128,129,130,131,132,	
pump, problems related to small-	133,134,135,136,137,138,	
diameter or dead-end mains, low-	139,141,142,143,144,145,	
pressure and private water supply	146,147,148,149,150,151,	
systems, hydrant coding systems,	152,153,154,156,157,158,	
and reliability of static sources.	159,160,161,162,163,164,	
	165,166,167,168,169,170,	
	171,172,173,174,175,176,	
	177,180,181,182,183,184,	
	185,186,187,188,189,190,	
	191,192,193,194,195,197,	
	198,199,200,201,202,203,	
	204,205,207,208,209,210,	
	211,212,213,214,215,216,	
	217,219,220,221,222,223,	
	224,225,226,227,229,230,	
	231,232,235,236,237,238,	
	239,240,241,243,244,245,	
	246,247,248,249,250,251,	
	252,253,254,255,256,257,	
	258,259,260,261,262,263,	
	264,265,266,267,268,269,	
	270,271,272,273,274,275,	
	276,277,278,280,281,282,	
	283,284,285,286,287,288,	
	289	
(D) D	66,67,79,88,89,92,96,97,99	JPR DOP 14a
( <i>B</i> ) Requisite Skills. The ability	,100,101,102,103,104,105,	JPR DOP 14b

**DRIVER OPERATOR ENGINE** Page 15 Correlation Sheets for NFPA 1002, 2003 Edition

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to position a fire department	106,107,108,109,110,111,	
pumper to operate at a fire	112,116,117,118,119,120,	
hydrant and at a static water	121,122,123,124,125,126,	
source, power transfer from	127,128,129,130,131,132,	
vehicle engine to pump, draft,	133,134,135,136,137,138,	
operate pumper pressure control	139,141,142,143,144,145,	
systems, operate the	146,147,148,149,150,151,	
volume/pressure transfer valve	152,153,154,156,157,158,	
(multistage pumps only), operate	159,160,161,162,163,164,	
auxiliary cooling systems, make	165,166,167,168,169,170,	
the transition between internal	171,172,173,174,175,176,	
and external water sources, and	177,180,181,182,183,184,	
assemble hose lines, nozzles,	185,186,187,188,189,190,	
valves, and appliances	191,192,193,194,195,196,	
	197,198,199,200,201,202,	
	203,204,205,207,208,209,	
	210,211,212,213,214,215,	
	216,217,219,220,221,222,	
	223,224,225,226,227,229,	
	230,231,232,235,236,237,	
	238,239,240,241,243,244,	
	245,246,247,248,249,250,	
	251,252,253,254,255,256,	
	257,258,259,260,261,262,	
	263,264,265,266,267,268,	
	269,270,271,272,273,274,	
	275,276,277,278,280,281,	
	282,283,284,285,286,287,	
	288,289	
<b>5.2.3</b> Produce a foam fire stream,	98,103,104,122,127,132,	JPR DOP 13B
given foam-producing	134,135,139,152,153,156,	
equipment, so that properly	157,158,167,168,169,170,	
proportioned foam is provided	171,172,173,174,175,176,	
proportioned roam is provided	180,182,183,184,185,186,	
	190,195,202,203,204,205,	
	207,219,220,233,241,242,	
	243,244,254,260,261,262,	
	263,264,265,266,267,268,	
	269,270,271,272,273,274,	
	275,276,277,278,279	
(A) Requisite Knowledge.	98,103,104,122,127,132,	JPR DOP 13B
(A) Kequisite Kilowieuge.	134,135,139,152,153,156	

Page 16

Correlation Sheets for NFPA 1002, 2003 Edition

Reprinted by permission of NFPA for	IFSAC accreditation review	UNLI
Proportioning rates and	,157,158,167,168,169,170,	
concentrations, equipment	171,172,173,174,175,176,	
assembly procedures, foam	180,182,183,184,185,186,	
system limitations, and	190,195,202,203,204,205,	
manufacturer's specifications.	207,219,220,233,241,242,	
_	243,244,254,260,261,262,	
	263,264,265,266,267,268,	
	269,270,271,272,273,274,	
	275,276,277,278,279	
	98,103,104,122,127,132,	JPR DOP 13A
( <i>B</i> ) <b>Requisite Skills</b> . The ability	134,135,139,152,153,156,	JPR DOP 13B
to operate foam proportioning	157,158,167,168,169,170,	
equipment and connect foam	171,172,173,174,175,176,	
stream equipment	180,182,183,184,185,186,	
	190,195,202,203,204,205,	
	207,219,220,233,241,242,	
	243,244,254,260,261,262,	
	263,264,265,266,267,268,	
	269,270,274,272,273,274,	
	275,276,277,278,279	
	96,98,100,103,104,116,117	JPR DOP 13A
<b>5.2.4</b> Supply water to fire	,118,119,120,121,122,124,	JPR DOP 15
sprinkler and standpipe systems,	125,126,127,128,129,130,	01112 01 10
given specific system	131,132,134,135,136,139,	
information and a fire department	142,143,144,145,146,147,	
pumper, so that water is supplied	148,149,150,151,152,153,	
to the system at the correct	154,155,156,157,158,159,	
volume and pressure	160,161,162,163,164,165,	
	166,167,168,169,170,171,	
	172,173,174,175,176,180,	
	182,184,185,186,190,193,	
	194,195,202,203,204,205,	
	207,219,220,233,239,240	
	,241,242,243,244,254,280,	
	281,282,283,284,285,286,	
	287,288,289	
	96,98,100,103,104,116,117	
(A) Requisite Knowledge.	,118,119,120,121,122,124,	
Calculation of pump discharge	127,128,129,130,131,132,	
pressure; hose layouts; location	134,135,136,139,142,143,	
of fire department connection;	144,145,146,147,148,149,	
alternative supply procedures if	150,151,152,153,154,155,	
11 7 1	150,151,152,155,154,155,	

Correlation Sheets for NFPA 1002, 2003 Edition

Page 17

Car description of the same	T	1
fire department connection is not	156,157,158,159,160,161,	
usable; operating principles of	162,163,164,165,166,167,	
sprinkler systems as defined in	168,169,170,173,174,176,	
NFPA 13, NFPA 13D, and	180,182,184,185,186,190,	
NFPA 13R; fire department	202,203,204,205,207,219,	
operations in sprinklered	220,233,239,240,241,242,	
properties as defined in NFPA	243,244,254,280,281,282,	
<u>13E</u> ; and operating principles of	283,284,285,286,287,288,	
standpipe systems as defined in	289	
NFPA 14.		
	96,98,100,103,104,116,117	JPR DOP 13a
(B) Requisite Skills. The ability	,118,119,120,121,122,124,	JPR DOP 15
to position a fire department	125,126,127,128,129,130,	
pumper to operate at a fire	131,132,134,135,136,139,	
hydrant and at a static water	142,143,144,145,146,147,	
source, power transfer from	148,149,150,151,152,153,	
vehicle engine to pump, draft,	154,155,156,157,158,159,	
operate pumper pressure control	160,161,162,163,164,165,	
systems, operate the	166,167,168,169,170,173,	
volume/pressure transfer valve	174,176,180,182,184,185,	
(multistage pumps only), operate	186,190,193,194,195,202,	
auxiliary cooling systems, make	203,204,205,207,219,220,	
the transition between internal	233,239,240,241,242,243,	
and external water sources, and	244,254,280,281,282,283,	
assemble hose line, nozzles,	284,285,286,287,288,289	
valves, and appliances	,,,,,	

### **Indiana Board of Firefighting Personnel Standards and Education**

# DRIVER OPERATOR PUMPER NFPA 1002, 2003 Edition

Revised 06/18/05

# STATE OF INDIANA JOB PERFORMANCE REQUIREMENT SKILLS EVALUATION SYSTEM

CANDIDATE:		
EVALUATOR: _		
DATE:	_ COURSE NUMBER:	
LOCATION:		

#### **OBJECTIVE:**

The Job Performance Requirement Skills Evaluation System is divided into Skill Stations based upon the subject headings within the certification standard. Each of the skill stations are further broken down into Skills Tests which are drawn from each component of the standard. This is an "Evaluation and not a "Training Session". The candidate must satisfactorily pass each skill.

#### INSTRUCTORS AND EVALUATORS:

Each Skill Test presented within this Skill Packet is based upon Job Performance Requirements identified by The National Fire Protection Agency and approved by the Indiana Board of Firefighting Personnel Standards and Education. Instructor II/III whom, is serving as the Lead Instructor and/or Lead Evaluator are mandated to ensure the Evaluation and Testing Results satisfy the Job Performance Requirement as described by the standard.

#### **CANDIDATES:**

If the candidate is unable to perform a task, the Evaluator will identify the specific task as a "Recommended Area for Further Training." Each Candidate shall advise the Evaluator when they have completed each Skill Station. Candidates will not find out the results of an individual Skill Station until all evaluations scheduled for that day have been completed. Candidates have the option to retake any Skill Test at the end of the Evaluation Session or during a make-up session scheduled by the Instructor.

5.1.1 General JPR #DOP1

**Standard Area: General** 

Candidate:	Date:	
SS#:	_	

STANDARD: 5.1.1.

NFPA 1002, 2003 Edition

TASK: Perform the specified routine tests, inspections and servicing functions specified in the following list given a fire department pumper and it's manufacturer's specifications, so that the operational status of the pumper is verified.

**PERFORMANCE OUTCOME:** The ability to use hand tools, recognize system problems and correct any deficiency noted, with completed departmental forms, according to policies and procedures of Authority Having Jurisdiction. **The Authority Having Jurisdiction will administer this JPR prior to the candidate participating in the Driver/Operator Practical.** 

The Proctor will choose two Task Steps including one piece of equipment from task step # 11 to be demonstrated by the candidate on the day of the practical.

**CONDITIONS:** The candidate will complete all elements of the assigned task.

**EQUIPMENT REQUIRED:** A fully equipped fire department pumper, the appropriate equipment to complete the assigned task and access to department policies, and procedures. \*SEE NEXT PAGE

No.	TASK STEPS	FIRST TEST		RETEST	
		Pass	Fail	Pass	Fail
1.	Battery (ies)				
2.	Braking systems				
3.	Coolant systems				
4.	Electrical systems				
5.	Fuel				
6.	Hydraulic fluid				
7.	Oil				
8.	Tires				
9.	Steering system				
10.	Belts				
11.	Tools, appliances and equipment				
12.	Perform a routine inspection on Water tank and other extinguishing agent levels in accordance with policies and procedures of Authority Having Jurisdiction. ( <i>if applicable</i> )				
13.	Perform a routine inspection on pumping systems in accordance with policies and procedures of Authority Having Jurisdiction.				
14.	Perform a routine inspection on Foam systems in accordance with policies and procedures of Authority Having Jurisdiction. ( <i>if applicable</i> )				

5.1.1 General JPR #DOP1

**Standard Area: General** 

<sup>\*</sup>Authority Having Jurisdiction will make apparatus check off sheets available for the visual check of the vehicle per their department policies and procedures. The candidate will be allowed to use these sheets while performing this JPR.

## DRIVER OPERATOR PUMPER NFPA 1002, 2003 Edition 5.1.1 General

5.1.1 General JPR #DOP1

**Standard Area: General** 

Lead Evaluator/Candidate Comments:					
Lead Evaluator (Print & Sign)	Date	Candidate	Date		
Re-Test Lead Evaluator	 Date	Re-Test Candidate	——————————————————————————————————————		

# **DRIVER OPERATOR PUMPER**

NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving / Operating

Candi	Candidate:		Date	e:			
SS#:							
	ARD: 4.3.1 1002, 2003 Edition		atus driver/operator, given a prepare the pumper to be di		tment pur	mper, shal	1
PERFO	RMANCE OUTCOME: Prelimina	•					
Condi	TIONS: The candidate will comp	elete all elements of the assi	igned task.				
EQUIPM	MENT REQUIRED: (1) one fire de	epartment pumper.					
No.		TASK STEPS		FIRST	TEST	RET	EST
NO.		TASK STEPS		Pass	Fail	Pass	Fail
1.	Check and adjust the drivers' s	eat.					
2.	Check and adjust vehicle mirro	ors.					
3.	Fasten seatbelt prior to placing	the pumper in motion.					
	Evaluator/Candidate Cor	nments:  Date	Candidate	e		Dat	te
Re-Te	est Lead Evaluator	 Date	Re-Test Cand	idate		Dat	te

5.1 Driving / Operating Standard Area: Driving Operating

Candi	didate:						
SS#:							
	ARD: 4.3.6 1002, 2003 Edition	<b>TASK:</b> Operate a vehicle using defensive driving conditions, given a fire department vehicle and of the vehicle maintained.				control	
of the voperate automo	ehicle while accelerating, decelerati safely during non-emergency condi	operate passenger restraint devices, maintain safe ng, and turning, maintain reasonable speed for roations, operate under adverse environmental or driaority Having Jurisdiction will administer this actical.	ad, weather, ving surface	and traff	ic conditions, and us	ons,	
CONDI	TIONS: The candidate will complete	e all elements of the assigned task.					
	MENT REQUIRED: A fire department nent policies, procedures and related	vehicle, the appropriate equipment to complete the forms.	ne assigned	tasks and	access to		
No.		TASK STEPS	FIRST TEST		RET	RETEST	
			Pass	Fail	Pass	Fail	
1.	Wearing Seatbelt						
2.	Operate passenger restraint device	s					
3.	Maintain safe following distances						
4.	Maintain control of the vehicle wh	ile accelerating, decelerating, and turning					
5.	Maintain reasonable speed for road	d, weather, and traffic conditions					
6.	Operate safely during non-emerge	ncy conditions					
7.	Operate under adverse environmen	ntal or driving surface conditions					
8.	Use automotive gauges and control	ls					

<sup>\*</sup>Authority Having Jurisdiction will make available to the proctor any documentation to verify that these duties have been performed.

NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving Operating

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

**5.1 Driving / Operating** 

**Standard Area: Driving / Operating** 

JPR #DOP7

Candi	andidate: Dat		<b>:</b>					
SS#:								
		Troy, Danforms the proceed driving everying and	aified 4.2	2 thmough	125 air	· · · · · ·		
	TANDARD: 4.3.5  IFPA 1002, 2003 Edition  TASK: Perform the practical driving exercises specified 4.3.2 through 4.3.5 given a fire department pumper and a spotter for backing, so that each exercise is performed safely without striking the vehicle or obstructions.							
given a vertical obstruct ( <i>Dimin</i>	PERFORMANCE OUTCOME: 4.3.5* Maneuver a fire department vehicle in areas with restricted horizontal and vertical clearances, given a fire department vehicle and a course that requires the operator to move forward through areas of restricted horizontal and vertical clearances, so that the operator accurately judges the ability of the vehicle to pass through the openings and so that no obstructions are struck.  (Diminishing Clearance Exercise)  CONDITIONS: The candidate will complete all elements of the assigned task.							
EQUIPN	EQUIPMENT REQUIRED: (1) one fire department pumper.							
No.		TASK STEPS	FIRST	TEST	RET	EST		
NO.		TASK STEFS	Pass	Fail	Pass	Fail		
1.	Maneuver the pumper forward thr striking obstructions.	ough the diminishing clearance exercise without						
11.	Do not allow the pumper to cross	over the finish line.						

See attached Appendix and Figure A-4.3.5 for instructions and dimensions.

NOTE: Not all apparatus will fit in dimensions given below. Proctor should measure wheel width of apparatus to be used in the course to include tire bulge, add 2" to the total width of the course (1" on each side)

5.1 Driving / Operating Standard Area: Driving / Operating

JPR #DOP7

A-4.3.5

The diminishing clearance exercise can be used as practice for or in the evaluation of this requirement. This exercise measures a driver's ability to steer the apparatus in a straight line, to judge distances from wheel to object, and to stop at a finish line. The speed at which a driver should operate the apparatus is optional, but it should be great enough to necessitate quick judgment. The course for this exercise is created by arranging two rows of markers to form a lane 75 ft (22.9 m) long. The lane varies in width from 9 ft 6 in. (2.9 m) to a diminishing clearance of 8 ft 2 in. (2.5 in). The driver should maneuver the apparatus forward through this lane without touching the markers. The vehicle should be stopped at a finish line 50 ft (15.25 in) beyond the last marker. No portion of the vehicle should protrude beyond this line. (See Figure A-4.3.5.)

NOTE: For large vehicles, such as ARFF apparatus, this course might need to be modified.

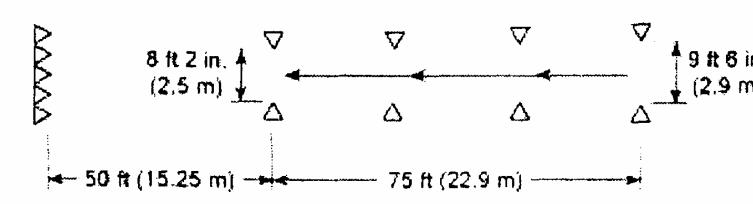


Figure A-4.3.5 Diminishing clearance exercise.

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NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving / Operating

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)		Candidate	
Re-Test Lead Evaluator	<b>Date</b>	Re-Test Candidate	Date

**5.1 Driving / Operating** 

Standard Area: Driving / Operating

Candidate: Date		:						
SS#:								
	TASK: Perform the practical driving exercises specified 4.3.2 through 4.3.5 given a fire department pumper and a spotter for backing, so that each exercise is performed safely without striking the vehicle or obstructions.							
vehicle, the vehi	PERFORMANCE OUTCOME: 4.3.4* Turn a fire department vehicle 180 degrees within a confined space, given a fire department rehicle, a spotter for backing, and an area in which the vehicle cannot perform a U-turn without stopping and backing up, so that he vehicle is turned 180 degrees without striking obstructions within the given space.  (Turn Around Exercise)							
CONDIT	CONDITIONS: The candidate will complete all elements of the assigned task.							
EQUIPM	EQUIPMENT REQUIRED: (1) one fire department pumper.							
No		TASK STEPS	FIRST TEST		RETEST			
No.		TASK STEPS	Pass	Fail	Pass	Fail		
1.	Turn the pumper 180 degrees with	in a confined space, without striking obstructions.						
2.	Do not allow the pumper to leave	course boundaries.						

JPR #DOP6

See attached NFPA Appendix & Figure A-4.3.4 for instructions and dimensions.

5.1 Driving / Operating Standard Area: Driving / Operating

JPR #DOP6

#### A-4.3.4

The confined space turnaround can be used as practice for or in the *evaluation* of this requirement. This exercise measures the driver's ability to turn the vehicle around in a confined space without striking obstacles. The turn is accomplished within an area 50 ft x 100 ft (15.25 m x 30.5 in). The driver moves into the area from a 14.ft (3.66-rn) opening in the center of one of the 50-ft (15.25-rn) legs, turns the vehicle 180 degrees, and returns through the opening. There is no limitation on the number of times the driver has to maneuver the vehicle to accomplish this exercise, but no portion of the vehicle should extend over the boundary lines of the space. (See Figure A-4.3. 4.)

NOTE: For large vehicles, such as ARFF apparatus, this course might need to be modified.

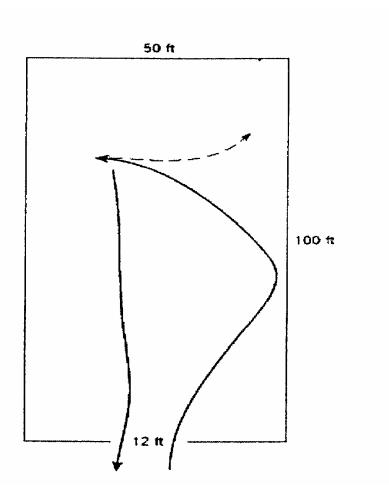


Figure A-4.3.4 Confined space turnaround.

**Copyright NFPA** 

NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving / Operating

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)		Candidate	
Re-Test Lead Evaluator	 Date	Re-Test Candidate	 Date

5.1 Driving / Operating

**Standard Area: Driving / Operating** 

JPR #DOP5

Candidate: Dat		:					
SS#:							
	TASK: Perform the practical driving exercises specified 4.3.2 through 4.3.5 given a fire department pumper and a spotter for backing, so that each exercise is performed safely without striking the vehicle or obstructions.						
given a obstacle	fire department vehicle, spotter for	ver a vehicle around obstructions on a roadway whil backing, and a roadway for obstructions, so that the the direction of travel and without striking the obstructions.	vehicle is				
CONDIT	TIONS: The candidate will complete	e all elements of the assigned task.					
EQUIPM	<b>IENT REQUIRED:</b> (1) one fire depart	rtment pumper.					
No.		TASK STEPS	FIRST TEST		RET	EST	
NO.		TASK STEPS	Pass	Fail	Pass	Fail	
1.	1. Maneuver the pumper forward around obstructions without stopping and/or changing direction of travel and without striking obstructions.						
2.	Maneuver the pumper in reverse around obstructions without stopping and/or changing direction of travel and without striking obstructions.						
3.	Do not allow the pumper to leave	course boundaries.					

See attached NFPA Appendix & Figure A-4.3.3 for instructions and dimensions.

NOTE: Course boundaries are 20 feet from center of cone on each side. Total width of 40 feet.

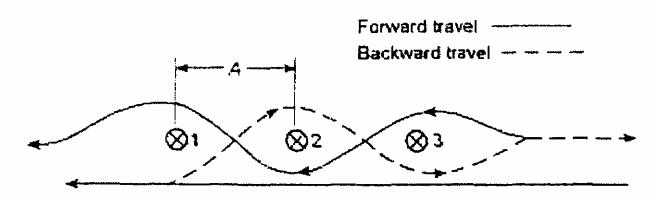
5.1 Driving / Operating Standard Area: Driving / Operating

JPR #DOP5

A-4.3.3

The serpentine exercise can be used as practice for or in the evaluation of this requirement. This exercise measures a driver's ability to steer the apparatus in close limits without stopping. The exercise should be conducted with the apparatus moving first backward, then forward. The course or path of travel for this exercise can be established by placing a minimum of three markers, each spaced between 30 ft (9 m) and 38 ft (12 m) apart, in a line. The spacing of the markers should be based on the wheel base of the vehicle used. Adequate space must be provided on each side of the markers for the apparatus to move freely. The driver should drive the apparatus along the left side of the markers in a straight line and stop just beyond the last marker. The driver then should back the apparatus between the markers by passing to the left of marker No. 1, to the right of marker No. 2, and to the left of marker No. 3. At this point, the driver should stop the vehicle and then drive it forward between the markers by passing to the right of marker No. 3, to the left of marker No. 2, and to the right of marker No. 3, to the left of marker No. 2, and to the right of marker No. 3.

NOTE: For large vehicles, such as ARFF apparatus, this course might need to be modified.



A: 30 ft to 38 ft based on vehicle wheel base

NOTE: Use 36 feet for Driver Operator Pumper (based on a standard wheel base of 16feet overall length of 32 feet. If pumper is longer adjust length as referenced above.)

Figure A-4.3.3 Serpentine exercise.

**Copyright NFPA** 

NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving / Operating

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

### **DRIVER OPERATOR PUMPER**

## NFPA 1002, 2003 Edition

5.1 Driving / Operating5.1.2 Driving / Operating

Standard Area: Driving / Operating

Candidate: _	Date: _	
CC#•		

JPR #DOP4

<b>STANDARD:</b> 5.1.2 NFPA 1002, 2003 Edition	<b>TASK:</b> Perform the practical driving exercises specified 4.3.2 through 4.3.5 given a fire department pumper and a spotter for backing, so that each exercise is performed
,	safely without striking the vehicle or obstructions.

**PERFORMANCE OUTCOME:** 4.3.2\* Back a vehicle from a roadway into restricted spaces on both the right and left sides of the vehicle, given a fire department vehicle, a spotter, and restricted spaces 12 ft in width, requiring 90-degree right-hand and left-hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and/or pull forward and without striking obstructions.

(Alley Dock Exercise)

**CONDITIONS:** The candidate will complete all elements of the assigned task.

**EQUIPMENT REQUIRED:** (1) one fire department pumper.

No	No. TASK STEPS	FIRST TEST		RETEST	
NO.		Pass	Fail	Pass	Fail
1.	Back the pumper into restricted space on the right side without having to stop and/or pull forward and without striking obstructions.				
2.	Back the pumper into restricted space on the left side without having to stop and/or pull forward and without striking obstructions.				
3.	Do not allow the pumper to leave course boundaries.				

See attached NFPA Appendix & Figure A-4.3.2 (a) & (b) for instructions and dimensions.

NOTE: JPR is complete upon backing into the dock exercise, the candidate will not be evaluated while pulling out of the dock area.

### DRIVER OPERATOR PUMPER

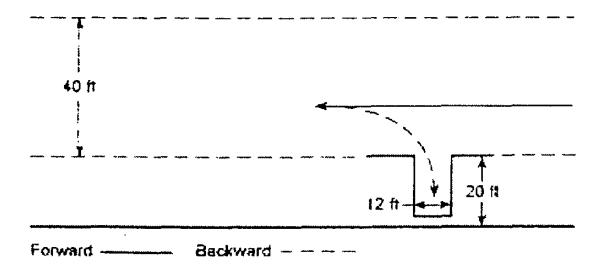
### **NFPA 1002, 2003 Edition**

5.1 Driving / Operating5.1.2 Driving / Operating

Standard Area: Driving / Operating

A-4.3.2

The alley dock exercise can be used as practice for or in the evaluation of this requirement. This exercise measures a driver's ability to drive past a simulated dock or stall, back the apparatus into the space provided, and stop smoothly. A dock or stall can be simulated by arranging barricades 40 ft (12.2 m) from a boundary line. These barricades should be 12 ft (3.66 m) apart, and the length should be approximately 20 ft (6.1 in). The driver should pass the barricades with the dock on the left and then back the apparatus, using a left turn, into the stall. The exercise should then be repeated with the dock on the right side, using a right turn. [See Figure A-4.3.2(a).



JPR #DOP4

Figure A-4.3.2(a) Alley dock exercise.

The apparatus station parking maneuver can also be used as practice for or in the evaluation of this requirement. This exercise measures the driver's ability to back the apparatus into a fire station to park or to back the apparatus down a street to reverse the direction of travel. An engine bay can be simulated by allowing for a 20-ft (6.1-m) minimum setback from a street 30 ft (9 m) wide, with a set of barricades at the end of the setback, spaced 12 ft (3.66 m) apart to simulate the garage door. The setback from the street should be determined by the testing agency to ensure that the distances reflect those encountered by the apparatus driver during the normal course of duties.

A marker placed on the ground should indicate to the operator the proper position of the left front tire of the vehicle once stopped and parked. A straight line can be provided to assist the operator while backing the apparatus, facilitating the use of vehicle mirrors. The minimum depth distance is determined by the total length of the vehicle. [See Figure A-4.3.2(b).]

#### **DRIVER OPERATOR PUMPER**

#### NFPA 1002, 2003 Edition

5.1 Driving / Operating 5.1.2 Driving / Operating

Standard Area: Driving / Operating

JPR #DOP4

NOTE: For large vehicles, such as ARFF apparatus, this course might need to be modified

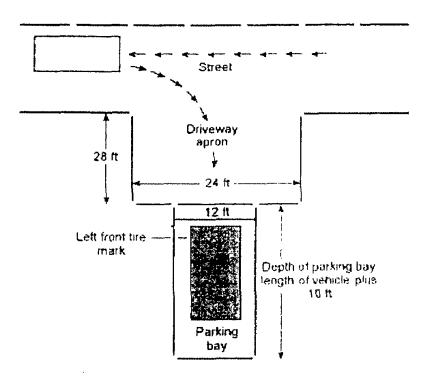


Figure A-4.3.2(b) Station parking procedure drill.

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NFPA 1002, 2003 Edition
5.1 Driving / Operating
5.1.2 Driving / Operating
Standard Area: Driving / Operating

JPR #DOP4

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

#### DRIVER OPERATOR PUMPER

#### NFPA 1002, 2003 Edition

**5.1 Driving / Operating** 

**Standard Area: Driving / Operating** 

JPR #DOP3
-----------

Candi	Candidate: Date		:			
SS#:						
	TASK: Operate a fire department pumper over a predetermined route on a public way that incorporates the maneuvers and features specified in the list in 4.3.1, so that the vehicle is safely operated in compliance with all applicable state and local laws, department rules and regulations, and the requirements of NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, Section 4.2.					nt the
	RMANCE OUTCOME: The candidate very rovided by the Authority Having Juri	will safely complete the task operating the department is diction.	ent pumpe	er on a pre	determine	ed
The AF	IJ will administer this JPR prior to	to the candidate participating in the Driver/Opera	ator Prac	tical.		
CONDIT	TIONS: The candidate will complete a	all elements of the assigned task.				
EQUIPM	MENT REQUIRED: (1) one fire depart	tment pumper.				
No.		TASK STEPS	FIRST	TEST	RET	EST
110.		TAGK STEES	Pass	Fail	Pass	Fail
1.	Four left turns.					
2.	Four right turns.					
3.	A straight section of urban business length.	s street or a two-lane rural road at least 1 mile in				
4.	One through-intersection and two i	intersections where a stop has to be made.				
5.	One Railroad crossing.					
6.	One curve, either left or right.					
7.	A section of limited-access highwa exit and a section of road long enough	ay that includes a conventional ramp entrance and ugh to allow two lane changes.				
8.	A downgrade steep enough and lon	ng enough to require down-shifting and braking.				
9.	An upgrade steep enough and long speed.	enough to require gear changing to maintain				
10.	One underpass or a low clearance of	or bridge.		 		

#### A-4.3.2

The maneuvers and features specified for this JPR include driving situations that the committee has determined to be essential. The committee recognizes that each of these situations might not exist in all areas. Where this occurs, those specific requirements can be omitted.

NFPA 1002, 2003 Edition 5.1 Driving / Operating Standard Area: Driving / Operating

JPR #DOP3

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

**5.2.1 Operations Standard Area: Operations** 

JPR #DOP9

Cand	idate:	Date	e:			
SS#:						
	ARD: 5.2.1 1002, 2003 Edition	<b>TASK:</b> The fire apparatus driver / operator, given demonstrate placing the pump in service for pump			ımper, sha	all
PERFO	RMANCE OUTCOME: The driver / o	perator shall safely and efficiently complete all in c	ab procedu	ıres.		
CONDI	TIONS: The candidate will complete	all in cab procedures prior to exiting the apparatus				
EQUIP	MENT REQUIRED: A fire departmen	t pumper equipped with wheel chocks.				
No.		TASK STEPS	FIRST TEST		RETEST	
110.		TASK STEES	Pass	Fail	Pass	Fail
1.	Bring the apparatus to a full stop a	and allow the engine to slow to idle speed.				
2.	Shift the transmission to neutral a	nd set the brake (per manufactures instructions).				
3.	Depress the brake pedal and engage the pump shift switch and lock.					
4.	Shift the transmission into pump §	gear.				
5.	Open water tank to pump valve.					
6.	Properly position wheel chocks.					
7.	Describe manual pump engager	nent procedures.				

Proctor will state to the Candidate the Task Steps in bold type.

**5.2.1 Operations Standard Area: Operations** 

**Re-Test Lead Evaluator** 

JPR #DOP9

**Date** 

Lead Evaluator/Candidate Com	ments:		
		Candidate	

**Date** 

**Re-Test Candidate** 

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10a

Candi	ndidate: Date					
SS#:						
	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.					
operatio	ons (from internal tank) for supplyin	ratus driver / operator, given a fire department pumper ng a pre-connected attack line, given onein. attack floor will produce an effective fire stream and calcul	ck line,	ft. in le	ength with	
CONDI	TIONS: The candidate will complete	all elements of the assigned task.				
EQUIPM	MENT REQUIRED: Determined by pro-	octor				
No.		TASK STEPS	FIRST	TEST	RET	EST
110.		TASK STEPS	Pass	Fail	Pass	Fail
1.	Open the water tank to pump valve	e fully				
2.	Place the transfer valve in <i>volume / pressure</i> . (if applicable)					
3.	Open the correct discharge valve.					
4.	Adjust the throttle to the correct di ( <i>Prime</i> , <i>if necessary</i> ).	ischarge pressure within (+ or – 5 psi)				
5.	Set the pressure control device to t	the operating pressure.		l		
6.	Monitor system for overheating. (	Operate auxiliary cooling systems. (if applicable)				

Continue to next JPR Sheet without shutting down

JPR #DOP10a

Lead Evaluator/Candidate Con	nments:		
Lead Evaluator (Print & Sign)	 Date	Candidate	 Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10a

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplyir	atus driver / operator, given a fire department pumper, shall demonstrate pump ng a pre-connected attack line, given onein. attack line,ft. in length with a floor will produce an effective fire stream and calculate the correct discharge pressure.
<b>CONDITIONS:</b> The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: Determined by p	roctor

Continue to next JPR Sheet without shutting down.

JPR #DOP10a

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	 Date	Candidate	 Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10b

Candi	date:	Date	e:			
SS#:						
	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.					
operation	ons (from internal tank) for supplying a g nozzle being deployed to the <b>ground</b>	s driver / operator, given a fire department pump a pre-connected attack line, given onein. atta floor, will produce an effective fire stream and	ick line,	_ft. in ler	ngth with a	
CONDI	TIONS: The candidate will complete all	elements of the assigned task.				
EQUIPM	MENT REQUIRED: To be determined by	y the lead proctor.				
No.	n	TASK STEPS	FIRST	TEST	RET	EST
110.		TASK STEES	Pass	Fail	Pass	Fail
1.	Open the water tank to pump valve fu	ılly.				
2.	Place the transfer valve in <i>volume</i> / p	ressure. (If applicable)				
3.	Open the correct discharge valve.					
4.	Adjust the throttle to the correct discle ( <i>Prime</i> , <i>if necessary</i> ).	harge pressure within $(+ or - 5 psi)$				
5.	Set the pressure control device to the	operating pressure.				
6.	Monitor system for overheating. Ope	erate auxiliary cooling systems (if applicable)				

Continue to next JPR Sheet without shutting down

JPR #DOP10b

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10b

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplying	ratus driver / operator, given a fire department pumper, shall demonstrate pump ng a pre-connected attack line, given onein. attack line,ft. in length with a and floor, will produce an effective fire stream and calculate the correct discharge
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determine	d by the lead proctor.

Continue to next JPR Sheet without shutting down.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10c

Candidate: Date			:				
SS#:							
	I.m.						
	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.						
operation	RMANCE OUTCOME: The fire apparatus drive ons ( <i>from internal tank</i> ) for supplying a pre-cognozzle being deployed to the <u>3<sup>rd</sup></u> floor will J	onnected attack line., given onein. attac	ck line, _	ft. in le	ngth with		
CONDI	TIONS: The candidate will complete all eleme	ents of the assigned task.					
EQUIPM	MENT REQUIRED: To be determined by the le	ad proctor.					
No.	TASK S	TEPS	FIRST TEST		RET	RETEST	
110.	TASKSTETS		Pass	Fail	Pass	Fail	
1.	Open the water tank to pump valve fully.						
2.	Place the transfer valve in <i>volume / pressure</i> . (If applicable)						
3.	Open the correct discharge valve.						
4.	Adjust the throttle to the correct discharge p ( <i>Prime</i> , if necessary).	ressure within (+ or – 5 psi)					
5.	Set the pressure control device to the operation	ing pressure.					
6.	Monitor system for overheating. Operate au	ixiliary cooling systems (if applicable)					

Continue to next JPR Sheet without shutting down

JPR #DOP10c

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date				

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10c

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplyin	atus driver / operator, given a fire department pumper, shall demonstrate pump g a pre-connected attack line., given onein. attack line,ft. in length with a loor will produce an effective fire stream and calculate the correct discharge pressure.
CONDITIONS: The candidate will complete	all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	by the lead proctor.

Continue to next JPR Sheet without shutting down.

5.2 Operations 5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10d

Candidate: Date		:					
SS#:							
	ARD: 5.2.1 follo 1002, 2003 Edition safe	SK: Produce effective hand or master streams, powing list, so that the pump is safely engaged, ety devices are set, the rated flow of the nozzle aratus is continuously monitored for potential	all pressur	re control ed and ma	and vehic	cle	
operation	ons (from internal tank) for supplying a pedft. downhill, with a gpm fog no	driver / operator, given a fire department pump re-connected attack line, given onein. attacozzle will produce an effective fire stream and	ck line,	_ft. in lei	ngth and	ge	
CONDI	TIONS: The candidate will complete all e	elements of the assigned task.					
EQUIPM	MENT REQUIRED: To be determined by the	he lead proctor.					
No.	TAS	SK STEPS	FIRST TEST R		RET	ETEST	
110.			Pass	Fail	Pass	Fail	
1.	Open the water tank to pump valve fully	y.					
2.	Place the transfer valve in <i>volume / pres</i>	ssure. (If applicable)					
3.	Open the correct discharge valve.						
4.	Adjust the throttle to the correct dischar ( <i>Prime</i> , <i>if necessary</i> ).	rge pressure within $(+ or - 5 psi)$					
5.	Set the pressure control device to the op	perating pressure.					
6.	Monitor system for overheating. Opera	te auxiliary cooling systems. (if applicable)					

Continue to next JPR Sheet without shutting down

JPR #DOP10d

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	<b>Date</b>	Re-Test Candidate	Date				

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10d

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplying	atus driver / operator, given a fire department pumper, shall demonstrate pump g a pre-connected attack line, given onein. attack line,ft. in length and fog nozzle will produce an effective fire stream and calculate the correct discharge
CONDITIONS: The candidate will complete	all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	by the lead proctor.

Continue to next JPR Sheet without shutting down.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10e

Candidate: Date		e:						
SS#:								
10	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.							
operation	ons (from internal tank) for supplyir	atus driver / operator, given a fire department pump ng a pre-connected attack line, given onein. atta nozzle will produce an effective fire stream and cal	ick line,	_ft. in le	ngth and	oressure.		
CONDI	TIONS: The candidate will complete	e all elements of the assigned task.						
EQUIPM	MENT REQUIRED: To be determined	d by the lead proctor.						
No.		TASK STEPS	FIRST	TEST	RET	EST		
110.		TASK STEFS	Pass	Fail	Pass	Fail		
1.	Open the water tank to pump valv	e fully.						
2.	Place the transfer valve in volume / pressure. (If applicable)							
3.	Open the correct discharge valve.							
4.	Adjust the throttle to the correct de ( <i>Prime</i> , <i>if necessary</i> ).	ischarge pressure within (+ or – 5 psi)						
5.	Set the pressure control device to	the operating pressure.						
6.	Monitor system for overheating.	Operate auxiliary cooling systems (if applicable)						

Continue to next JPR Sheet without shutting down

JPR #DOP10e

Lead Evaluator/Candidate Com	nments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10e

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplying	atus driver / operator, given a fire department pumper, shall demonstrate pump g a pre-connected attack line, given onein. attack line,ft. in length and nozzle will produce an effective fire stream and calculate the correct discharge pressure.
<b>CONDITIONS:</b> The candidate will complete	all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	by the lead proctor

Continue to next JPR Sheet without shutting down.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10f

Candidate: Date		te:					
SS#:							
	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.						
operation	ons (from internal tank) for supplying a	as driver / operator, given a fire department pun a pre-connected attack line, given onein. at produce an effective fire stream and calculate t	tack line,	_ft. in ler	ngth with a	a	
CONDI	TIONS: The candidate will complete all	l elements of the assigned task.					
EQUIPM	MENT REQUIRED: To be determined by	by the lead proctor.					
No.	n	TASK STEPS	FIRST	TEST	RET	EST	
110.	TASK STEFS		Pass	Fail	Pass	Fail	
1.	Open the water tank to pump valve fully.						
2.	Place the transfer valve in <i>volume / pressure</i> . (If applicable)						
3.	B. Open the correct discharge valve.						
4.	Adjust the throttle to the correct discle ( <i>Prime, if necessary</i> ).	harge pressure within (+ or – 5 psi)					
5.	Set the pressure control device to the	e operating pressure.					
6.	Monitor system for overheating. Ope	erate auxiliary cooling systems (if applicable)					

Continue to next JPR Sheet without shutting down

JPR #DOP10f

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date				

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP10f

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
operations (from internal tank) for supplying	atus driver / operator, given a fire department pumper, shall demonstrate pump  ag a pre-connected attack line, given onein. attack line,ft. in length with a  ill produce an effective fire stream and calculate the correct discharge pressure.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

Continue to next JPR Sheet without shutting down.

**5.2 Operations Standard Area: Operations** 

JPR #DOP11

Candi	date:	Date	e:			
SS#:						
	ARD: 5.2.1 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, following list, so that the pump is safely engaged, safety devices are set, the rated flow of the nozzle apparatus is continuously monitored for potential	all pressu is achieve	re controled and ma	and vehic	cle
PERFO	RMANCE OUTCOME: The Driver/Op	perator will perform a transfer from internal tank to	external so	ource (Hy	edrant).	
CONDI	TIONS: The candidate will perform to	his task completing all task steps in a safe manner.				
EQUIPN	MENT REQUIRED: A fire department	pumper, hydrant and all equipment needed to mak	e connecti	on.		
No.		TASK STEPS	FIRST TEST		RETEST	
NO.		TASK STEPS	Pass	Fail	Pass	Fail
1.	Signal to have hydrant opened (pro	octor will have someone at hydrant to open it).				
2.	Maintain constant discharge pressu	ure (+ or - 30 psi.)				
3.	Reset pressure control device.					
4.	Fill apparatus booster tank.					
5.	Close tank to pump.					

#### Continue to next JPR Sheet without shutting down

Note: If apparatus has an electronic throttle control, task step # 2 is not applicable.

JPR #DOP11

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	 Date	Re-Test Candidate	 Date

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP11

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
PERFORMANCE OUTCOME: The Driver/Op	perator will perform a transfer from internal tank to external source ( <i>Hydrant</i> ).
CONDITIONS: The candidate will perform	this task completing all task steps in a safe manner.
EQUIPMENT REQUIRED: A fire department	nt pumper, hydrant and all equipment needed to make connection.

Continue to next JPR Sheet without shutting down.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12a

Candi	date:		Date	<b>.</b>			
SS#:							
NFPA :		TASK: Produce effective hand or m following list, so that the pump is s safety devices are set, the rated flow apparatus is continuously monitore ratus driver/operator; given a fire dep	afely engaged, a w of the nozzle and for potential p	all pressur is achieve problems.	re control ed and ma	and vehic aintained,	cle and the
	olying multiple hose lines.						
Driver/	Operator is operating off a press	urized water source with attack lin	ne flowing.				
Proctor	number floors supplied from ischarge pressure.						
CONDI	TIONS: The candidate will complete	all elements of the assigned task.					
EQUIPM	MENT REQUIRED: To be determined	by the lead proctor.					
No.		TASK STEPS		FIRST	TEST	RET	EST
				Pass	Fail	Pass	Fail
1.	Identify static pressure						
2.	Place transfer valve in	_ (if equipped).					
3.		pressure (hoseline number one)					
4.	Adjust throttle to correct pump dis (within + or -	scharge pressure ( <i>hoseline number tw</i> 5 psi).	vo)				
5.	Set pressure control device.						
6.	Identify residual pressure	psi.					
7.	Monitor system for overheating. O	perate auxiliary cooling systems (if app	olicable)				
8.	Identify the number of equal lines of	or additional gpm that can be added					
9.	Identify possible problems that may	occur if residual pressure drops below	w 20 psi.				
10.	Identify action to be taken.						
11.	Demonstrate shut down procedures				<u></u>		

Proctor will state to the Candidate the Task Steps in bold type.

JPR #DOP12a

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

JPR #DOP12a

Candidate:	Date:
SS#:	
	TASK: Produce effective hand or master streams, given the sources specified in the
STANDARD: 5.2.1	following list, so that the pump is safely engaged, all pressure control and vehicle
NFPA 1002, 2003 Edition	safety devices are set, the rated flow of the nozzle is achieved and maintained, and the
	apparatus is continuously monitored for potential problems.
for supplying multiple hose lines.	atus driver/operator; given a fire department pumper, shall demonstrate pump operations urized water source with attack line flowing.
Driver/Operator is operating on a pressu	irized water source with attack line nowing.
	in hoseline, ft in length , in smooth bore nozzle with a hydrant, must show an effective fire stream and calculate the correct pump
Proctor must determine gain/loss prior to	o administering the exam.
<b>CONDITIONS:</b> The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12b

Cand	idate:	Dat	e:			
SS#:						
	ARD: 5.2.1 1002, 2003 Edition	TASK: Produce effective hand or master streams, following list, so that the pump is safely engaged safety devices are set, the rated flow of the nozzle apparatus is continuously monitored for potential	, all pressue is achieve	re controled and ma	and vehic	cle
	RMANCE OUTCOME: The fire apparate plying multiple hose lines.	us driver/operator; given a fire department pump	er, shall de	monstrate	e pump op	erations
Driver	Operator is operating off a pressur	rized water source with attack line flowing.				
f c		in hoseline, ft in length , in smoothydrant, must show an effective fire stream and administering the exam.				
-	TIONS: The candidate will complete a					
EQUIPM	MENT REQUIRED: To be determined b	by the lead proctor.				
No.		TASK STEPS	FIRST TEST		RETEST	
110.		1ASK STEFS	Pass	Fail	Pass	Fail
1.	Identify static pressure	psi.				
2.	Place transfer valve in	(if equipped).				
3.	Maintain correct pump discharge properties $(within + or - 5 psi)$ .	essure (hoseline number one)				
4.	Adjust throttle to correct pump discl	harge pressure ( <i>hoseline number two</i> ) <i>psi</i> )				
5.	Set pressure control device.					
6.	Identify residual pressure	psi.				
7.	Monitor system for overheating. Ope	erate auxiliary cooling systems (if applicable)				
8.	Identify the number of equal lines or	additional gpm that can be added				
9.	Identify possible problems that may o	occur if residual pressure drops below 20 psi.				
10.	Identify action to be taken.					
11.	Demonstrate shut down procedures.					

Proctor will state to the Candidate the Task Steps in bold type.

JPR #DOP12b

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	 Date	Candidate	 Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

JPR #DOP12b

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
<b>PERFORMANCE OUTCOME:</b> The fire appar for supplying multiple hose lines.	atus driver/operator; given a fire department pumper, shall demonstrate pump operations
Driver/Operator is operating off a pressu	urized water source with attack line flowing.
	in hoseline, ft in length , in smooth bore nozzle with a hydrant, must show an effective fire stream and calculate the correct pump
Proctor must determine gain/loss prior to	o administering the exam.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12c

Candi	date:		Dates	:			
SS#:							
NFPA 1	ARD: 5.2.1 1002, 2003 Edition  RMANCE OUTCOME: The fire appar	TASK: Produce effective har following list, so that the pur safety devices are set, the rat apparatus is continuously meatus driver/operator, given a fi	np is safely engaged, a ed flow of the nozzle is onitored for potential p	all pressur is achieve roblems.	re control ed and ma	and vehic aintained,	cle and the
	plying multiple hose lines.	1 / 2	1 1	,		1 1 1	
Driver	Operator is operating off a pressu	rized water source with atta	ck line flowing.				
	e number 2  The driver operator given (1) one nozzle and ft elevation gai correct pump discharge pressure.  r must determine gain/loss prior to	n/loss will produce and effecti					
CONDI	TIONS: The candidate will complete	all elements of the assigned t	ask.				
EQUIPM	MENT REQUIRED: To be determined	l by the lead proctor.					
No		TASK STEPS		FIRST		T TEST RETEST	
No.		TASK STEPS		Pass	Fail	Pass	Fail
1.	Identify static pressure	_ psi.					
2.	Place transfer valve in	(if equipped).					
3.	Maintain correct pump discharge pump $(within + or - 5 psi)$	oressure (hoseline number one					
4.	Adjust throttle to correct pump dis (within + or		ber two)				
5.	Set pressure control device.						
6.	Identify residual pressure	psi.					
7.	Monitor system for overheating. O	perate auxiliary cooling systems	(if applicable)				
8.	Identify the number of equal lines o	r additional gpm that can be ad	ded				
9.	Identify possible problems that may	occur if residual pressure drop	s below 20 psi.				
10.	Identify action to be taken.						
11.	Demonstrate shut down procedures						

Proctor will state to the Candidate the Task Steps in bold type.

JPR #DOP12c

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

JPR #DOP12c

Candidate:	Date:
SS#:	
	TASK: Produce effective hand or master streams, given the sources specified in the
STANDARD: 5.2.1	following list, so that the pump is safely engaged, all pressure control and vehicle
NFPA 1002, 2003 Edition	safety devices are set, the rated flow of the nozzle is achieved and maintained, and the
	apparatus is continuously monitored for potential problems.
<b>PERFORMANCE OUTCOME:</b> The fire appar for supplying multiple hose lines.	ratus driver/operator, given a fire department pumper, shall demonstrate pump operations
Driver Operator is operating off a pressu	urized water source with attack line flowing.
Hoseline number 2	
	ein hoselineft in length with agpm fog
	n/loss will produce and effective fire stream and calculate the
correct pump discharge pressure.	•
Proctor must determine gain/loss prior t	o administering the exam.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12d

Candidate: D						
SS#:						
-						
	ARD: 5.2.1 fo 002, 2003 Edition sa	ASK: Produce effective hand or master streams, gillowing list, so that the pump is safely engaged, a fety devices are set, the rated flow of the nozzle is paratus is continuously monitored for potential products.	ıll pressur s achieve	re control	and vehic	ele
	RMANCE OUTCOME: The fire apparatus olying multiple hose lines.	s driver/operator, given a fire department pumper,	, shall dei	monstrate	pump ope	erations
		red water source with attack line flowing.				
Hoselin The driv	e number 2 ver/operator given (1) one in hos t in length with a gpm fog nozzl	seline ft in length with a gated wye and (2) e will produce an effective fire stream and calcula				
CONDIT	TIONS: The candidate will complete all	elements of the assigned task.				
EQUIPM	MENT REQUIRED: To be determined by	the lead proctor.				
	The cyc Campag					
No.	т	'ack Steps	FIRST	TEST	RET	EST
No.	Т	ASK STEPS	FIRST Pass	TEST Fail	RET Pass	EST Fail
<b>No.</b> 1.	Identify static pressureps					
		si.				
1.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge pres	si.				
1.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge press (within $+$ or $-$ 5 psi).  Adjust throttle to correct pump discharge	si.  if equipped).  ssure (hoseline number one)				
1. 2. 3.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge press (within + or - 5 psi).  Adjust throttle to correct pump discharge	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)				
1. 2. 3. 4.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge press (within + or - 5 psi).  Adjust throttle to correct pump discharge (within + or - 5 psi).	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)				
1. 2. 3. 4. 5.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge press (within + or - 5 psi).  Adjust throttle to correct pump discharge (within + or - 5 psi).  Set pressure control device.  Identify residual pressure	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)				
1. 2. 3. 4. 5.	Identify static pressureps  Place transfer valve in(  Maintain correct pump discharge press (within + or - 5 psi).  Adjust throttle to correct pump discharge (within + or - 5 psi).  Set pressure control device.  Identify residual pressure	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)  psi.  ate auxiliary cooling systems (if applicable)				
1. 2. 3. 4. 5. 6. 7.	Identify static pressure	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)  psi.  ate auxiliary cooling systems (if applicable)				
1. 2. 3. 4. 5. 6. 7.	Identify static pressure	si.  if equipped).  ssure (hoseline number one)  urge pressure (hoseline number two)  _ psi.  ate auxiliary cooling systems (if applicable)  Iditional gpm that can be added				

JPR #DOP12d

Re-Test Lead Evaluator	 Date	Re-Test Candidate	 Date
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Lead Evaluator/Candidate Com	ments:		

JPR #DOP12d

Candidate:	<b>Date:</b>
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
<b>PERFORMANCE OUTCOME:</b> The fire appart for supplying multiple hose lines.	ratus driver/operator, given a fire department pumper, shall demonstrate pump operations
Driver/Operator is operating off a pressu	urized water source with attack line flowing.
Hoseline number 2	
	in hoseline ft in length with a gated wye and (2) two in length with a gpm fog nozzle will produce an effective fire ump discharge pressure.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12e

Candidate:		Date	:				
SS#:							
	ARD: 5.2.1 002, 2003 Edition	TASK: Produce effective he following list, so that the p safety devices are set, the r apparatus is continuously r	ump is safely engaged, ated flow of the nozzle	all pressu is achieve	re control	and vehic	ele
	RMANCE OUTCOME: The fire apparallying multiple hose lines.	atus driver/operator, given a	fire department pumper	, shall de	monstrate	pump ope	erations
Driver/	Operator is operating off a pressu	rized water source with at	tack line flowing.				
	e number 2 The driver/operator given (1) one _ appliance with in smooth b must show an effective fire stream must determine gain/loss prior to	ore nozzle; ft gain/lo and calculate the correct pu	ss in elevation; a hydrar				
	TIONS: The candidate will complete		task.				
EQUIPM	IENT REQUIRED: To be determined	by the lead proctor.					
No.		TASK STEPS		FIRST TEST		RET	
1.	I.J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	:		Pass	Fail	Pass	Fail
	Identify static pressure						
2.	Place transfer valve in						
3.	Maintain correct pump discharge pump (within $+ or - 5 psi$ ).	oressure (hoseline number or	ne)				
4.	Adjust throttle to correct pump dis (within + $or - 5 psi$ ).	charge pressure (hoseline nu	umber two)				
5.	Set pressure control device.						
6.	Identify residual pressure	psi.					
7.	Identify the number of equal line	es or additional gpm that c	an be added				
8.	Identify possible problems that rpsi.	nay occur if residual press	ure drops below 20				
9.	Identify action to be taken.						
10.	Demonstrate shut down procedu	res.					

JPR #DOP12e

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

JPR #DOP12e

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
<b>PERFORMANCE OUTCOME:</b> The fire appart for supplying multiple hose lines.	atus driver/operator, given a fire department pumper, shall demonstrate pump operations
	urized water source with attack line flowing.
appliance with in smooth b	in hoseline ft in length attached to a remote master stream ore nozzle; ft gain/loss in elevation; a hydrant as a water supply, and calculate the correct pump discharge pressure.
Proctor must determine gain/loss prior to	o administering the exam.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by proctor

5.2 Operations5.2.1 Operations

**Standard Area: Operations** 

JPR #DOP12f

Candi	idate:	Date:				
SS#:						
NFPA 1	ARD: 5.2.1 follo safet appa	K: Produce effective hand or master streams, giving list, so that the pump is safely engaged, a y devices are set, the rated flow of the nozzle is ratus is continuously monitored for potential paragraphs.	ll pressu: s achieve roblems.	re control	and vehice aintained,	cle and the
	RMANCE OUTCOME: The fire apparatus drolying multiple hose lines.	river/operator, given a fire department pumper,	, shall de	monstrate	pump op	erations
Driver	Operator is operating off a pressurized	water source with attack line flowing.				
The dri at g pump d		sft. in length attached to a remote master n/loss in elevation, must show an effective fire inistering the exam.				
CONDI	TIONS: The candidate will complete all ele	ements of the assigned task.				
EQUIPN	MENT REQUIRED: To be determined by the	e lead proctor.				
No.	TAS	k Steps	FIRST TEST RETEST			
1.	Identify static pressurepsi.		Pass	Fail	Pass	Fail
2.	Place transfer valve in (if equipp	ped).				
3.	Maintain correct pump discharge pressure (h 5 psi).	oseline number one) (within + or –				
4.	Adjust throttle to correct pump discharge pre $+ or - 5 psi$ ).	ssure (hoseline number two) (within				
5.	Set pressure control device.					
6.	Identify residual pressure psi.					
7.	Monitor system for overheating. Operate	auxiliary cooling systems (if applicable)				
8.	Identify the number of equal lines or addit	tional gpm that can be added				
9.	Identify possible problems that may occur	if residual pressure drops below 20 psi.				
10.	Identify action to be taken.					
11.	Demonstrate shut down procedures.					

JPR #DOP12f

Lead Evaluator/Candidate Com	nments:		
Lead Evaluator (Print & Sign)	Date	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

JPR #DOP12f

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.1 NFPA 1002, 2003 Edition	<b>TASK:</b> Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.
<b>PERFORMANCE OUTCOME:</b> The fire appar for supplying multiple hose lines.	ratus driver/operator, given a fire department pumper, shall demonstrate pump operations
Driver/Operator is operating off a pressu	urized water source with attack line flowing.
appliance with a fog nozzle at	in. hoselinesft. in length attached to a remote master stream gpm, hydrant as a water supply,ft. gain/loss in elevation, must show ate the correct pump discharge pressure.
Proctor must determine gain/loss prior to	o administering the exam.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by the lead proctor.

**5.2 Operations 5.2.4** 

**Standard Area: Operations** 

JPR #DOP13a

Candidate: Date					
SS#:					
NFPA	TASK: Supply water to fire sprinkler and stand information and a fire department pumper, so the proper volume and pressure.	that water is s	upplied to	o the syste	
Connec	RMANCE OUTCOME: The driver/operator given (2) twoin. hoselines,ft. in ction, operating at the floor, withft. ofin. attack line, and agpm rized water source, must show an effective fire stream and calculate the correct pumper must select fire sprinkler or stand pipe system	n. fog nozzle.	Supplied	Fire Dep from a	artment
CONDI	TIONS: The candidate will complete all elements of the assigned task.				
EQUIPM	MENT REQUIRED: To be determined by the lead proctor.				
No.	TASK STEPS	FIRST TEST R		RET	EST
110.	TASK STETS	Pass	Fail	Pass	Fail
1.	Identify static pressure psi.				
2.	Place transfer valve in (if equipped).				
3.	Adjust throttle to correct pump discharge pressure for attack line (within $+ or - 5 psi$ ).				
4.	Set pressure control device.				
5.	Demonstrate shut down procedures.				
6.	Monitor system for overheating. Operate auxiliary cooling systems (if applicable	)			

#### **DRIVER OPERATOR PUMPER** NFPA 1002, 2003 Edition 5.2 Operations 5.2.4

**Standard Area: Operations** 

JPR #DOP13a

Lead Evaluator/Candidate Com	ments:		
Lead Evaluator (Print & Sign)	<b>Date</b>	Candidate	Date
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date

#### **DRIVER OPERATOR PUMPER** NFPA 1002, 2003 Edition 5.2 Operations 5.2.4

**Standard Area: Operations** 

JPR #DOP13a

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.4 NFPA 1002, 2003 Edition	<b>TASK:</b> Supply water to fire sprinkler and standpipe systems, given specific information and a fire department pumper, so that water is supplied to the system at the proper volume and pressure.
Connection, operating at the floor, wi	erator given (2) twoin. hoselines,ft. in length, attached to the Fire Department thft. ofin. attack line, and agpm. fog nozzle. Supplied from a excive fire stream and calculate the correct pump discharge pressure.
CONDITIONS: The candidate will complete	
EQUIPMENT REQUIRED: To be determined	l by proctor

5.2 Operations5.2.3 Operations

**Standard Area: Operations** 

JPR #DOP13b

Candidate: Dat						
SS#:						
		ee a foam fire stream, given foam-pro	ducing e	quipment	, so that pi	roperly
	RMANCE OUTCOME: The fire apparatus driver/oper to operate foam-proportioning equipment, connect fam.					
CONDIT	TIONS: The candidate will complete all elements of	the assigned task.				
Compre	MENT REQUIRED: A supply of class A or B type for eased air foam system ( <i>CAFS</i> ) or Foam injection system will determine type of system to be used for	stem. Fog nozzle or foam nozzle as r				3
No	TASK STEPS		FIRST TEST		RETEST	
No.	TASK STEPS		Pass	Fail	Pass	Fail
1.	Identify type of foam producing equipment bei	ng utilized.				
2.	Prepare foam-producing equipment for operation.					
3.	Adjust throttle to correct pump discharge pressure being utilized.	for foam-producing equipment				
4.	Identify correct foam concentrations for a spec by the proctor. Example: What percentage of a polar solvent-fueled fire.					
5.	Produce an effective foam supplied fire stream.					
6.	Identify limitations of foam type being utilized.					
7.	Demonstrate shut down procedures.					
11.	Identify proper cleaning or flushing procedure manufacture recommendations.	s for equipment utilized, per the				

JPR #DOP13b

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date				

JPR #DOP13b

Candidate:	Date:				
SS#:					
STANDARD: 5.2.3	TASK: Produce a foam fire stream, given foam-producing equipment, so that properly				
NFPA 1002, 2003 Edition	proportioned foam is provided.				
<b>PERFORMANCE OUTCOME:</b> The fire apparatus driver/operator, given foam and foam producing equipment, shall demonstrate the ability to operate foam-proportioning equipment, connect foam stream equipment and produce an effective fire stream supplied with foam.					
CONDITIONS: The candidate will complete	all elements of the assigned task.				
<b>EQUIPMENT REQUIRED:</b> A supply of class	A or B type foam concentrate or substitute. Inline educator, bypass educator,				
Compressed air foam system (CAFS) or Fo	am injection system. Fog nozzle or foam nozzle as required. Authority Having				
Jurisdiction will determine type of system	n to be used for testing.				

5.2 Operations5.2.2 Operations

**Standard Area: Operations** 

JPR #DOP14a

Candidate:		Date	e:			
SS#:						
	ARD: 5.2.2 1002, 2003 Edition	TASK: Pump a supply line of 2 ½ in. or larger, gi length and size of the line and the desired flow ar pressure and flow are provided to the next pumpe	nd intake p	ressure, so		
to a fire	RMANCE OUTCOME: The driver /ope department pumper, relay water usft. elevation gain/loss flowing must determine gain/loss prior to a	erator, given a water source with (2) 10ft ing (1) one in. supply linesft. in length t gpm.	t. sections	of hard su	action con attack pur	nected nper
CONDI	TIONS: The candidate will complete	e all elements of the assigned task.				
EQUIPM	MENT REQUIRED: To be determined	d by the lead proctor.				
No.		TASK STEPS	FIRST TEST		RET	EST
110.		TAGEOTEE	Pass	Fail	Pass	Fail
1.	Identify the source and attack p	umper.				
2.	Identify the minimum water lev	el of the static source.				
3.	Identify the maximum lift at the	test site.				
4.	Identify the maximum priming	time of the source pumper.				
5.	Prime the pump.					
6.	Identify problems associated with	a failure to prime the pump.				
7.	Communications established with	attack pumper.				
8.	Open the correct discharge valve.					
9.	Adjust the throttle to the correct d	ischarge pressure within (+ or - 5 psi).				
10	Set pressure control device.					
11	Maintain pump prime without flow	w interruptions from attack pumper.				
12.	Demonstrate shut down procedu	nres.				
13.	Monitor systems for overheating.	Operate auxiliary cooling system ( <i>if applicable</i> ).				

JPR #DOP14a

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date				

#### **DRIVER OPERATOR PUMPER**

# NFPA 1002, 2003 Edition 5.2 Operations 5.2.2 Operations Standard Area: Operations

Standard Area. Operations	
Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.2 NFPA 1002, 2003 Edition	<b>TASK:</b> Pump a supply line of 2 ½ in. or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the proper pressure and flow are provided to the next pumper in the relay.
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determine	d by proctor

JPR #DOP14a

5.2 Operations5.2.2 Operations

**Standard Area: Operations** 

JPR #DOP14b

Candidate: Date:		<u> </u>				
SS#:						
NFPA 1	lengti 1002, 2003 Edition lengti press	K: Pump a supply line of 2 ½ in. or larger, given the and size of the line and the desired flow and sure and flow are provided to the next pumper	intake pr	essure, so ay.	that the p	proper
to a fire	e department pumper, relay water using (2)ft. elevation gain/loss flowing gpn		sections of a fire dep	of hard su partment a	action con attack pun	nected nper
	r must determine gain/loss prior to admi					
CONDI	TIONS: The candidate will complete all ele	ements of the assigned task.				
EQUIPM	MENT REQUIRED: To be determined by the	e lead proctor.				
No.	Tasi	K STEPS	FIRST TEST		RET	EST
110.	IASI	KOTEIS	Pass	Fail	Pass	Fail
1.	Identify the source and attack pumper	·.				
2.	Identify the minimum water level of th	ne static source.				
3.	Identify the maximum lift at the test si	ite.				
4.	Identify the maximum priming time of	f the source pumper.				
5.	Prime the pump.					
6.	Identify problems associated with a failur	are to prime the pump.				
7.	Communications established with attack	pumper.				
8.	Open the correct discharge valve.					
9.	Adjust the throttle to the correct discharge	ge pressure within $(+ or - 5 psi)$ .				
10	Set pressure control device					
11	Maintain pump prime without flow intern	ruptions from attack pumper.				
12	Demonstrate shut down procedures					
13.	Monitor systems for overheating. Opera	te auxiliary cooling systems (if applicable).				

JPR #DOP14b

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	 Date	Candidate					
Re-Test Lead Evaluator	Date	Re-Test Candidate	Date				

JPR #DOP14b

Candidate:	Date:
SS#:	
<b>STANDARD:</b> 5.2.2 NFPA 1002, 2003 Edition	TASK: Pump a supply line of 2 ½ in. or larger, given a relay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the proper pressure and flow are provided to the next pumper in the relay.
	61
CONDITIONS: The candidate will complete	e all elements of the assigned task.
EQUIPMENT REQUIRED: To be determined	d by proctor

JPR #DOP15

Candidate:			<b>Date:</b>			
SS#:						
	TASK: Produce effective hand or master streams, given the sources specified in the following list, so that the pump is safely engaged, all pressure control and vehicle safety devices are set, the rated flow of the nozzle is achieved and maintained, and the apparatus is continuously monitored for potential problems.					
	RMANCE OUTCOME: The fire appar oring the pumper to service.	atus driver / operator, given a fire department	pumper, shall d	lemonstra	te the pro	cedure
CONDI	TIONS: The candidate will complete	e all elements of the assigned task.				
EQUIPM	MENT REQUIRED: A fire department	t pumper, fully equipped.				
No.		TASK STEPS	FIRST	FIRST TEST		EST
NO.	TASK STEPS		Pass	Fail	Pass	Fail
1.	Insure that the apparatus water tan	k is full.				
2.	Reset pressure control devices.					
3.	Shift the transmission to neutral, a disengaging the pump shift switch	llowing it to return to idle speed before				
4.	Open the pump drain (optional).					
5.	Load and secure all equipment.					
6.	Secure compartment doors.					

JPR #DOP15

Lead Evaluator/Candidate Comments:							
Lead Evaluator (Print & Sign)	Date	Candidate	Date				
Re-Test Lead Evaluator	<b>Date</b>	Re-Test Candidate	Date				